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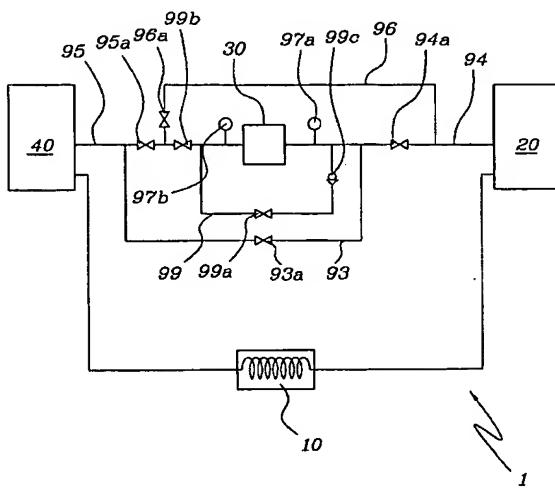
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(54) Title: REFRIGERATION SYSTEM OF AIR CONDITIONING APPARATUSES WITH BYPASS LINE BETWEEN INLET AND OUTLET OF COMPRESSOR



(57) Abstract: A refrigeration system of air conditioning apparatuses with a bypass line between the inlet and outlet of a compressor. The refrigeration system (1) has an expansion unit (10) to execute adiabatic expansion of refrigerant, an indoor unit (20) with a heat exchanger, a compressor (30) to execute adiabatic compression of the refrigerant, and an outdoor unit (40) with a heat exchanger, and is operated to cool or heat air within a space to a desired level by using the phase change of the refrigerant. The refrigeration system also has a bypass line (99) between the inlet and outlet of the compressor (30) to bypass at least a part of the output refrigerant from the outlet to the inlet of the compressor when the pressure of the output refrigerant is lower than a reference level or the temperature of the air outside the compressor is lower than a reference level.

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